

In the claims:

Please amend claims 1, 7, and 8 as shown in the following complete listing:

1. (currently amended) A process for preparing supported, titanized chromium catalysts, which comprises the following steps:

A) in a single step, bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound, wherein the protic medium comprises an alcohol selected from the group consisting of methanol, ethanol, 1-propanol, 1-butanol, 1-pentanol, 1-hexanol, and 2-ethylhexanol;

B) optionally, removing the protic medium, thereby forming a precatalyst;

C) optionally, calcining the precatalyst obtained after step B); and

D) optionally, activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

2. (previously presented) The process as claimed in claim 1, wherein the support material is a silica gel.

3. (previously presented) The process as claimed in claim 1, wherein the chromium compound is an inorganic chromium compound.

4. (previously presented) The process as claimed in claim 3, wherein the inorganic chromium compound is chromium(III) nitrate nonahydrate.

5. (previously presented) The process as claimed in claim 1, wherein the titanium compound is titanium tetraisopropoxide, titanium tetra-n-butoxide or a mixture thereof.

6. (previously presented) The process as claimed in claim 1, wherein the protic medium is methanol.

7. (currently amended) A catalyst system obtained by a process comprising:

A) in a single step, bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound, wherein the protic medium comprises an alcohol selected from the group consisting of methanol, ethanol, 1-propanol, 1-butanol, 1-pentanol, 1-hexanol, and 2-ethylhexanol;

B) optionally, removing the protic medium, thereby forming a precatalyst;

C) optionally, calcining the precatalyst obtained after step B); and

D) optionally, activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

8. (currently amended) A process for preparing polyolefins comprising polymerizing or copolymerizing olefins in presence of a catalyst system obtained by a process comprising:

A) in a single step, bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound, wherein the protic medium comprises an alcohol selected from the group consisting of methanol, ethanol, 1-propanol, 1-butanol, 1-pentanol, 1-hexanol, and 2-ethylhexanol;

B) optionally, removing the protic medium, thereby forming a precatalyst;

C) optionally, calcining the precatalyst obtained after step B); and

D) optionally, activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

9. (previously presented) The process as claimed in claim 8, wherein ethylene or a monomer mixture comprising at least 50 mol% of ethylene and at least one C₃-C₁₂-1-alkene is used for preparing the polyolefins.

10. (previously presented) The process as claimed in claim 1, wherein the support material is a silica xerogel.